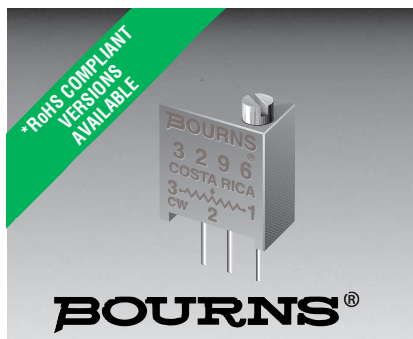




Features

- Low TCR
- Multiturn / Cermet / Industrial / Sealed
- 3 terminal styles
- Chevron seal design
- Mounting hardware available (H-117P)
- RoHS compliant* version available



Model 3296-LTC is obsolete and not recommended for new designs.
Model 3296 is preferred.

Applications

- Rheostat applications with wiper currents less than 25 microamps
- Process control instrumentation
- Power supplies

3296-LTC - 3/8 " Square Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range2K to 25K ohms
(see standard resistance table)
Resistance Tolerance $\pm 10\%$ std.
(tighter tolerance available)
Absolute Minimum Resistance 1 % or 2 ohms max.
(whichever is greater)
Contact Resistance Variation 1.0 % or 3 ohms max.
(whichever is greater)
Adjustability
Voltage $\pm 0.01\%$
Resistance $\pm 0.05\%$
Resolution Infinite
Insulation Resistance 500 vdc.
1,000 megohms min.
Dielectric Strength
Sea Level 900 vac
70,000 Feet 350 vac
Effective Travel 25 turns nom.

Environmental Characteristics

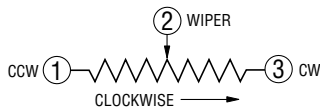
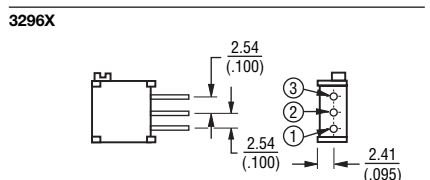
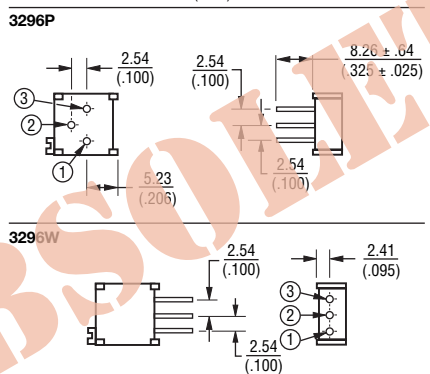
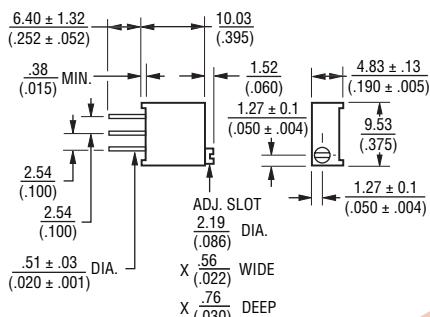
Power Rating (300 volts max.)
70 °C 0.5 watt
125 °C 0 watt
Temperature Range -55 °C to +150 °C
Temperature Coefficient
End to End ± 20 ppm/°C
Through the Wiper ± 50 ppm/°C
Seal Test 85 °C Fluorinert†
Humidity MIL-STD-202 Method 103
96 hours
(2 % Δ TR, 10 Megohms IR)
Vibration 20 G (1 % Δ TR; 1 % Δ VR)
Shock 100 G (1 % Δ TR; 1 % Δ VR)
Load Life
..... 1,000 hours 0.5 watt @ 70 °C
(3 % Δ TR; 3 % or 3 ohms, whichever is greater, CRV)
Rotational Life 200 cycles
(4 % Δ TR; 3 % or 3 ohms, whichever is greater, CRV)

Physical Characteristics

Torque 3.0 oz-in. max.
Mechanical Stops Wiper idles
Terminals Solderable pins
Weight 0.03 oz.
Marking Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model number and style
Wiper 50 % $\pm 10\%$
Flammability U.L. 94V-0
Standard Packaging 50 pcs. per tube
Adjustment Tool H-90

Product Dimensions

Common Dimensions



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
TOLERANCES: $\pm \frac{0.25}{(.010)}$ EXCEPT WHERE NOTED

NOTE: TCR through the wiper applies when 40 % or more of the resistance element is in the circuit.

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253

Popular values listed in boldface. Special resistances available.

How To Order

3296 W - LTC - 103 LF
Model _____
Style _____
Product Indicator _____
Resistance Code _____
Terminations _____
LF = 100 % Tin-plated (RoHS compliant)
Blank = 90 % Tin / 10 % Lead-plated (Standard)

Consult factory for other available options.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

"Trimpot" is a registered trademark of Bourns, Inc.

†"Fluorinert" is a registered trademark of 3M Co.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.